

**Amendments to the Specification:**

Please amend paragraph [00079] as indicated below.

[00079] An embodiment of a second aspect of the invention comprises a level sensor provided with mirrors having optical properties which are selected to minimize process dependent apparent surface depression. For example, an embodiment of this aspect of the invention may include a level sensor having metallic mirrors. Referring to figure 2, the level sensor comprises a source S, a detector 5, and folding mirrors 2, 4. The folding mirrors 2,4 comprise comprising an Ag substrate with a Al<sub>2</sub>O<sub>3</sub> coating, which are shown in more detail in Figure 10 (other suitable coatings may be used). As shown in Figure 10, folding mirrors 2,4 include Ag substrate 100 and Al<sub>2</sub>O<sub>3</sub> coating 102. Coatings have been found by the inventors to give rise to a Goos-Haenchen shift, the wavelength and polarisation dependency of the shift being dependent upon the thickness of the coating. Therefore in this embodiment of the invention the thickness of the Al<sub>2</sub>O<sub>3</sub> coating of the mirrors used for the level sensor may be selected to provide a minimized Goos-Haenchen shift. The appropriate thickness may be dependent to some extent upon the processes that have been applied to the substrate 3. However, it has been found that in general a coating of 275nm of Al<sub>2</sub>O<sub>3</sub> provides favorable results. Other coating thicknesses which provide favorable results are described below in relation to figures 7 to 9.

Please insert the following new paragraph after paragraph [00036]:

[00036.1] Figure 10 depicts the level sensor of Figure 2 in more detail than Figure 2.